

## **IN THE CLAIMS**

Claims 1-~~3937~~ (cancelled)

Claim ~~3840~~ (currently amended): A fusion protein comprising a selenocysteine-containing peptide fused to a surface protein displayed on an amplifiable genetic particle.

Claim ~~3941~~ (currently amended): A fusion protein of claim ~~3840~~, wherein the amplifiable genetic particle is selected from a phage, a virus, a cell or a spore.

Claim ~~4042~~ (currently amended): A fusion protein according to claim ~~3840~~, wherein the selenocysteine-containing peptide is a recombinant protein such that the selenocysteine is incorporated at a specific, unique site.

Claim ~~4143~~ (currently amended): A fusion protein according to claim ~~3840~~, wherein the covalent linkage between the selenocysteine-containing peptide and the surface protein is a peptide bond.

Claim ~~4244~~ (currently amended): A fusion protein according to claim ~~3840~~, wherein the peptide is expressed by a DNA having a TGA codon and a selenocysteine insertion sequence.

Claim ~~4345~~ (currently amended): A fusion protein according to claim ~~4244~~, wherein the selenocysteine insertion sequence is located downstream of the TGA codon.

Claim ~~4446~~ (withdrawn): A fusion protein according to claim 4042, wherein the selenocysteine is flanked on either or both sides by one or more randomized amino acid.

Claim ~~4547~~ (withdrawn): A fusion protein according to claim 3840, wherein the selenocysteine in the peptide is positioned adjacent to one side of one or more randomized amino acids, the one or more randomized amino acids being flanked on a second side by a cysteine.

Claim ~~4648~~ (currently amended): A fusion protein according to claim 4244, wherein the selenocysteine insertion sequence is obtained from a amplifiable genetic particle selected from the group consisting of eubacteria, eukarya and archea.

Claim ~~4749~~ (withdrawn): A fusion protein according to claim 3840, wherein the selenocysteine in the peptide is capable of chemical derivatization of the selenol group.

Claim ~~4850~~ (withdrawn): A fusion protein according to claim 4749, wherein the chemical derivatization results from a nucleophilic substitution reaction.

Claim ~~4951~~ (withdrawn): A fusion protein according to claim 4749, wherein the chemical derivatization results from an oxidation reaction.

Claim 5052 (withdrawn): A fusion protein according to claim 4749, wherein the chemical derivatization results from a metal coordination reaction.

Claim 5153 (withdrawn): A fusion protein according to claim 4749, wherein a product of chemical derivatization of the selenocysteine in the peptide is a chemical functionality selected from the group consisting of enzyme substrates, enzyme cofactors, enzyme inhibitors, receptor ligands and cytotoxic agents.

Claim 5254 (withdrawn): A fusion protein according to claim 4042 wherein the selenocysteine-containing peptide further comprises an enzyme substrate or is modified at the selenocysteine to form an enzyme substrate.

Claim 5355 (withdrawn): A fusion protein according to claim 5254, wherein the enzyme substrate forms a reaction product in the presence of an enzyme and the enzyme substrate is located on the surface of the amplifiable genetic particle.

Claim 5456 (withdrawn): A fusion protein of claim 5355, wherein the reaction product is capable of binding to an affinity substrate.

Claim 5557 (withdrawn): A fusion protein, according to claim 5355, wherein the recombinant protein is selected from a library of variants of a single enzyme, wherein each variant contains one or more amino acid substitutions relative to the native enzyme.

Claim ~~5658~~ (withdrawn): A fusion protein according to claim ~~5355~~, wherein the recombinant protein is selected from an expressed c-DNA library.